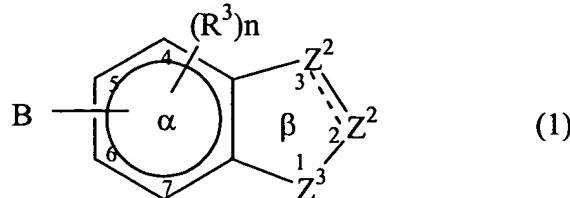


## CLAIM AMENDMENTS

1. (currently amended): A compound of the formula:



and the pharmaceutically acceptable salts thereof, or a pharmaceutical composition thereof, wherein

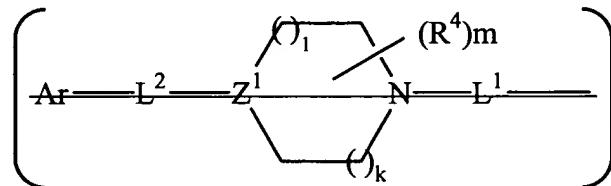
represents a single or double bond;

B is  $-W_i-COX_jY$  wherein Y is COR<sup>2</sup> or an isostere thereof and R<sup>2</sup> is hydrogen or a noninterfering substituent, each of W and X is a spacer of 2-6 Å, and each of i and j is independently 0 or 1;

each R<sup>3</sup> is independently a noninterfering substituent, where n is 0-3;

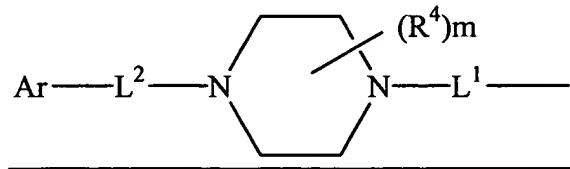
Z<sup>3</sup> is NR<sup>7</sup> or O; wherein R<sup>7</sup> is H or a noninterfering substituent;

one Z<sup>2</sup> is CA or CR<sup>8</sup>A and the other is CR<sup>1</sup>, CR<sup>1</sup><sub>2</sub>, NR<sup>6</sup> or N wherein each R<sup>1</sup>, R<sup>6</sup> and R<sup>8</sup> is independently hydrogen or noninterfering substituent; wherein A is:



such that Z<sup>1</sup> is CR<sup>5</sup> or N wherein R<sup>5</sup> is hydrogen or a noninterfering substituent;

each of l and k is an integer from 0-2 wherein the sum of l and k is 0-3;



Ar is an aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring;

each R<sup>4</sup> is independently a noninterfering substituent where m is 0-4;

each of L<sup>1</sup> and L<sup>2</sup> is a linker; and  
the distance between the atom of Ar linked to L<sup>2</sup> and the center of the β ring is [[4.5-]] no more than 24Å.

Q1  
2. (original): The compound of claim 1 wherein B is -COXjCOR<sup>2</sup>, and  
wherein R<sup>2</sup> is H, or is straight or branched chain alkyl, alkenyl, alkynyl, aryl, arylalkyl,  
heteroalkyl, heteroaryl, or heteroarylalkyl, each optionally substituted with halo, alkyl,  
heteroalkyl, SR, OR, NR<sub>2</sub>, OCOR, NRCOR, NRCONR<sub>2</sub>, NRSO<sub>2</sub>R, NRSO<sub>2</sub>NR<sub>2</sub>, OCONR<sub>2</sub>, CN,  
COOR, CONR<sub>2</sub>, COR, or R<sub>3</sub>Si wherein each R is independently H, alkyl, alkenyl or aryl or the  
heteroatom-containing forms thereof, or

wherein R<sup>2</sup> is OR, NR<sub>2</sub>, SR, NRCONR<sub>2</sub>, OCONR<sub>2</sub>, or NRSO<sub>2</sub>NR<sub>2</sub>, wherein each R is  
independently H, alkyl, alkenyl or aryl or the heteroatom-containing forms thereof, and wherein  
two R attached to the same atom may form a 3-8 member ring and wherein said ring may further  
be substituted by alkyl, alkenyl, alkynyl, aryl, arylalkyl, heteroalkyl, heteroaryl, heteroarylalkyl,  
each optionally substituted with halo, SR, OR, NR<sub>2</sub>, OCOR, NRCOR, NRCONR<sub>2</sub>, NRSO<sub>2</sub>R,  
NRSO<sub>2</sub>NR<sub>2</sub>, OCONR<sub>2</sub>, or R<sub>3</sub>Si wherein each R is independently H, alkyl, alkenyl or aryl or the  
heteroatom-containing forms thereof wherein two R attached to the same atom may form a 3-8  
member ring, optionally substituted as above defined; and

X, if present, is alkylene.

3. (original): The compound of claim 1 wherein Y is an isostere of COR<sup>2</sup>.

4. (original): The compound of claim 3 wherein Y is tetrazole; 1,2,3-triazole;  
1,2,4-triazole; or imidazole.

5. (original): The compound of claim 1 wherein each of i and j is 0.

6. (original): The compound of claim 2 wherein j is 0.

7. (original): The compound of claim 1 wherein Z<sup>3</sup> is NR<sup>7</sup>.

*A1*

8. (original): The compound of claim 7 wherein R<sup>7</sup> is H or is optionally substituted alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, or is SOR, SO<sub>2</sub>R, RCO, COOR, alkyl-COR, SO<sub>3</sub>R, CONR<sub>2</sub>, SO<sub>2</sub>NR<sub>2</sub>, CN, CF<sub>3</sub>, NR<sub>2</sub>, OR, alkyl-SR, alkyl-SOR, alkyl-SO<sub>2</sub>R, alkyl-OCOR, alkyl-COOR, alkyl-CN, alkyl-CONR<sub>2</sub>, or R<sub>3</sub>Si, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof.

9. (original): The compound of claim 8 wherein R<sup>7</sup> is H, or is optionally substituted alkyl, or acyl.

10. (canceled)

11. (original): The compound of claim 1 wherein L<sup>1</sup> is CO, CHO or CH<sub>2</sub>.

12. (original): The compound of claim 11 wherein L<sup>1</sup> is CO.

13-14. (canceled)

15. (original): The compound of claim 1 wherein L<sup>2</sup> is alkylene (1-4C) or alkenylene (1-4C) optionally substituted with a moiety selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR<sub>2</sub>, SR, SOR, SO<sub>2</sub>R, OCOR, NRCOR, NRCONR<sub>2</sub>, NRCOOR, OCONR<sub>2</sub>, RCO, COOR, alkyl-OOR, SO<sub>3</sub>R, CONR<sub>2</sub>, SO<sub>2</sub>NR<sub>2</sub>, NRSO<sub>2</sub>NR<sub>2</sub>, CN, CF<sub>3</sub>, R<sub>3</sub>Si, and NO<sub>2</sub>, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof, and wherein two substituents on L<sup>2</sup> can be joined to form a non-aromatic saturated or unsaturated ring that includes 0-3 heteroatoms which are O, S and/or N and which contains 3 to 8 members or said two substituents can be joined to form a carbonyl moiety or an oxime, oximeether, oximeester or ketal of said carbonyl moiety.

16. (original): The compound of claim 15 wherein L<sup>2</sup> is unsubstituted alkylene.

17. (original): The compound of claim 15 wherein L<sup>2</sup> is unsubstituted methylene, methylene substituted with alkyl, or -CH=.

18. (original): The compound of claim 1 wherein Ar is optionally substituted with 0-5 substituents selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR<sub>2</sub>, SR, SOR, SO<sub>2</sub>R, OCOR, NRCOR, NRCONR<sub>2</sub>, NRCOOR, OCONR<sub>2</sub>, RCO, COOR, alkyl-OOR, SO<sub>3</sub>R, CONR<sub>2</sub>, SO<sub>2</sub>NR<sub>2</sub>, NRSO<sub>2</sub>NR<sub>2</sub>, CN, CF<sub>3</sub>, R<sub>3</sub>Si, and NO<sub>2</sub>, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof, and wherein two of said optional substituents on adjacent positions can be joined to form a fused, optionally substituted aromatic or nonaromatic, saturated or unsaturated ring which contains 3-8 members.

19. (original): The compound of claim 18 wherein Ar is optionally substituted phenyl.

20. (original): The compound of claim 19 wherein said optional substitution is by halo, OR, or alkyl.

21. (original): The compound of claim 20 wherein said phenyl is unsubstituted or has a single substituent.

22. (original): The compound of claim 1 wherein R<sup>4</sup> is selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR<sub>2</sub>, SR, SOR, SO<sub>2</sub>R, OCOR, NRCOR, NRCONR<sub>2</sub>, NRCOOR, OCONR<sub>2</sub>, RCO, COOR, alkyl-OOR, SO<sub>3</sub>R, CONR<sub>2</sub>, SO<sub>2</sub>NR<sub>2</sub>, NRSO<sub>2</sub>NR<sub>2</sub>, CN, CF<sub>3</sub>, R<sub>3</sub>Si, and NO<sub>2</sub>, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof and two of R<sup>4</sup> on adjacent positions can be joined to form a fused, optionally substituted aromatic or nonaromatic, saturated or unsaturated ring which contains 3-8 members, or R<sup>4</sup> is =O or an oxime, oximeether, oximeester or ketal thereof.

23. (original): The compound of claim 22 wherein each R<sup>4</sup> is halo, OR, or alkyl.

24. (original): The compound of claim 23 wherein m is 0, 1, or 2.

25. (original): The compound of claim 24 wherein m is 2 and both R<sup>4</sup> are alkyl.

26. (original): The compound of claim 1 wherein each R<sup>3</sup> is halo, alkyl, heteroalkyl, OCOR, OR, NRCOR, SR, or NR<sub>2</sub>, wherein R is H, alkyl, aryl, or heteroforms thereof.

27. (original): The compound of claim 26 wherein R<sup>3</sup> is halo or alkoxy.

28. (original): The compound of claim 27 wherein n is 0, 1 or 2.

29. (original): The compound of claim 1 wherein L<sup>1</sup> is coupled to the  $\beta$  ring at the 5-position.

30. (original): The compound of claim 1 wherein Z<sup>2</sup> at position 3 is CA or CH<sup>1</sup>A.

31. (original): The compound of claim 30 wherein the Z<sup>2</sup> at position 2 is CR<sup>1</sup> or CR<sup>1</sup><sub>2</sub>.

32. (original): The compound of claim 31 wherein R<sup>1</sup> is hydrogen, or is alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aryloyl, halo, OR, NR<sub>2</sub>, SR, SOR, SO<sub>2</sub>R, OCOR, NRCOR, NRCONR<sub>2</sub>, NRCOOR, OCONR<sub>2</sub>, RCO, COOR, alkyl-OOR, SO<sub>3</sub>R, CONR<sub>2</sub>, SO<sub>2</sub>NR<sub>2</sub>, NRSO<sub>2</sub>NR<sub>2</sub>, CN, CF<sub>3</sub>, R<sub>3</sub>Si, and NO<sub>2</sub>, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof and two of R<sup>1</sup> can be joined to form a fused, optionally substituted aromatic or nonaromatic, saturated or unsaturated ring which contains 3-8 members.

33. (original): The compound of claim 32 wherein each R<sup>1</sup> is selected from the group consisting of H, alkyl, acyl, aryl, arylalkyl, heteroalkyl, heteroaryl, halo, OR, NR<sub>2</sub>, SR, NRCOR, alkyl-OOR, RCO, COOR, and CN, wherein each R is independently H, alkyl, or aryl or heteroforms thereof.

34. (original): The compound of claim 30 wherein  $Z^2$  at position 2 is N or  $NR^6$ .

35. (original): The compound of claim 34 wherein  $R^6$  is H, or alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, or is  $SOR$ ,  $SO_2R$ ,  $RCO$ ,  $COOR$ , alkyl-COR,  $SO_3R$ ,  $CONR_2$ ,  $SO_2NR_2$ , CN,  $CF_3$ , or  $R_3Si$  wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof.

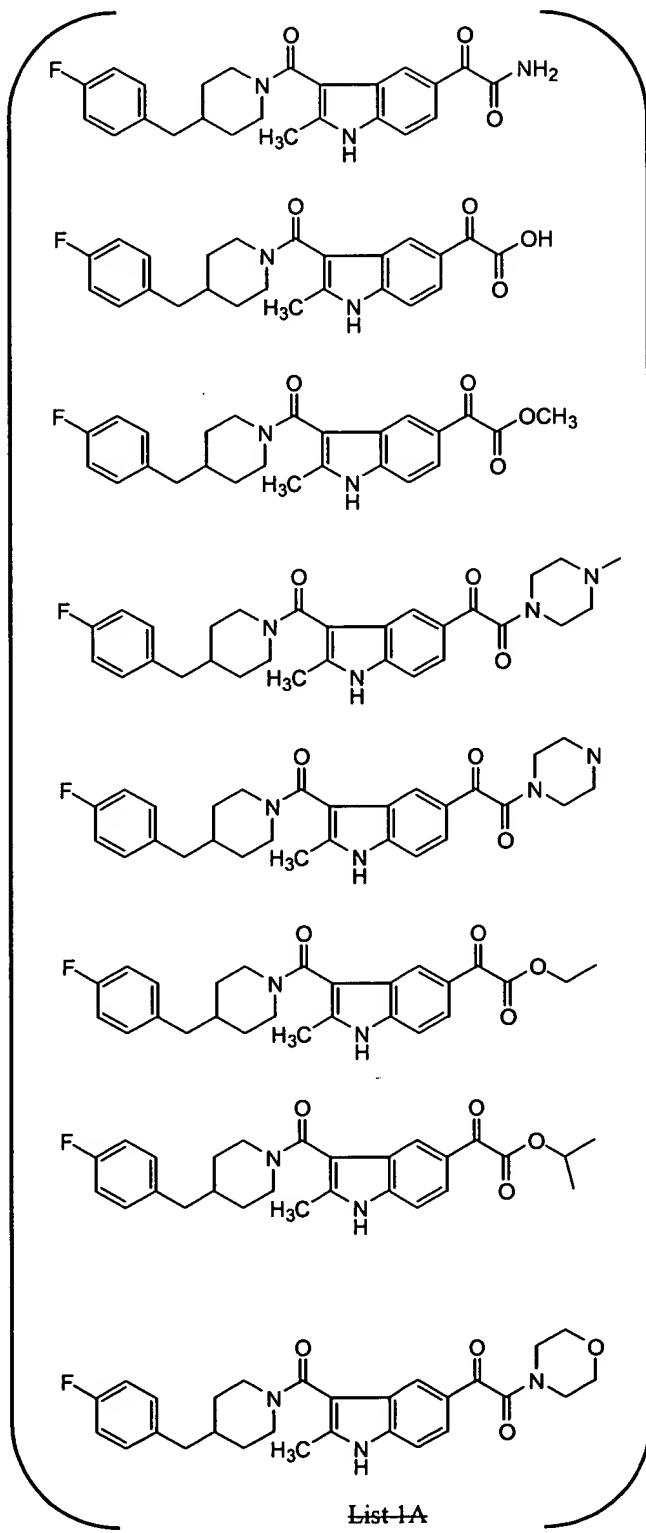
36. (original): The compound of claim 1 wherein represents a double bond.

37. (original): The compound of claim 1 wherein the distance between the atom on Ar linked to  $L^2$  and the center of the  $\beta$  ring is 7.5-11 $\text{\AA}$ .

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38. (original): The compound of claim 1 wherein the compound of formula (1) is selected from the group consisting of:

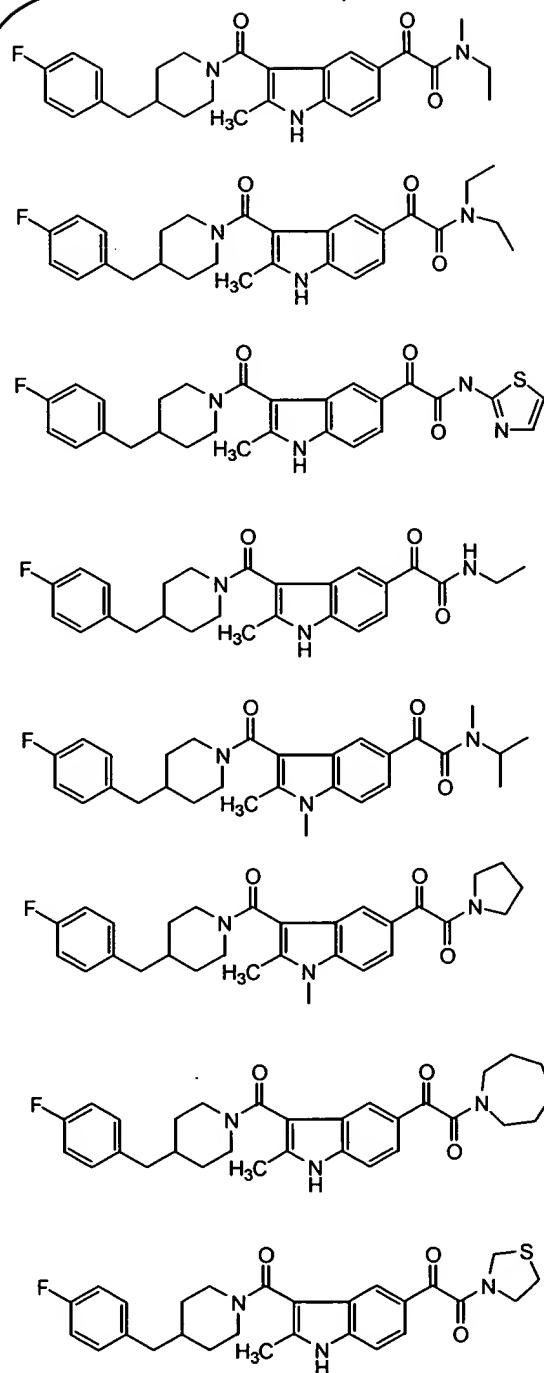
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List 1A

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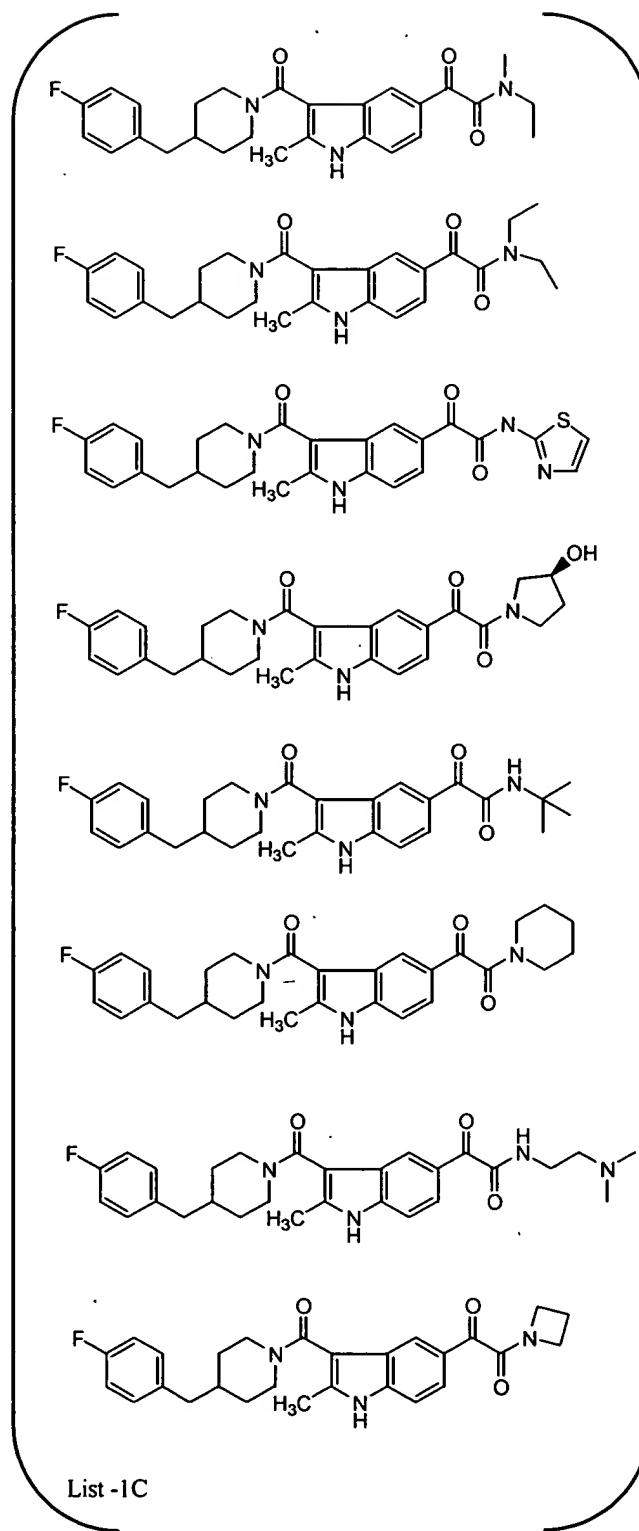
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List - 1B

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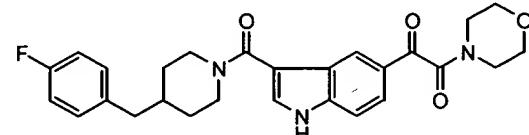
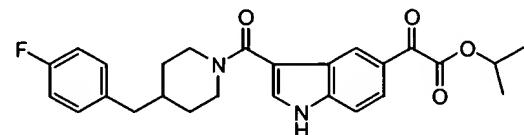
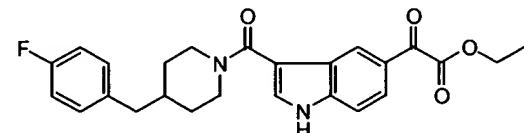
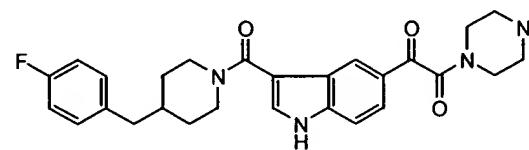
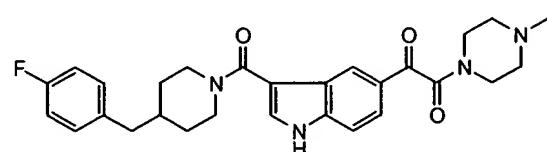
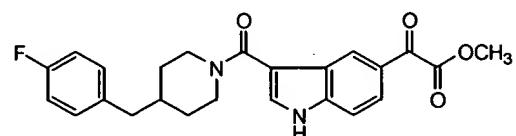
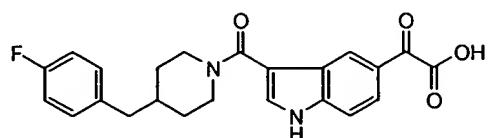
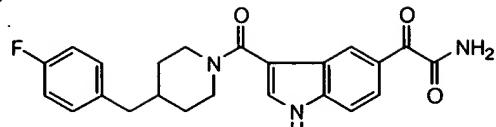


List -1C



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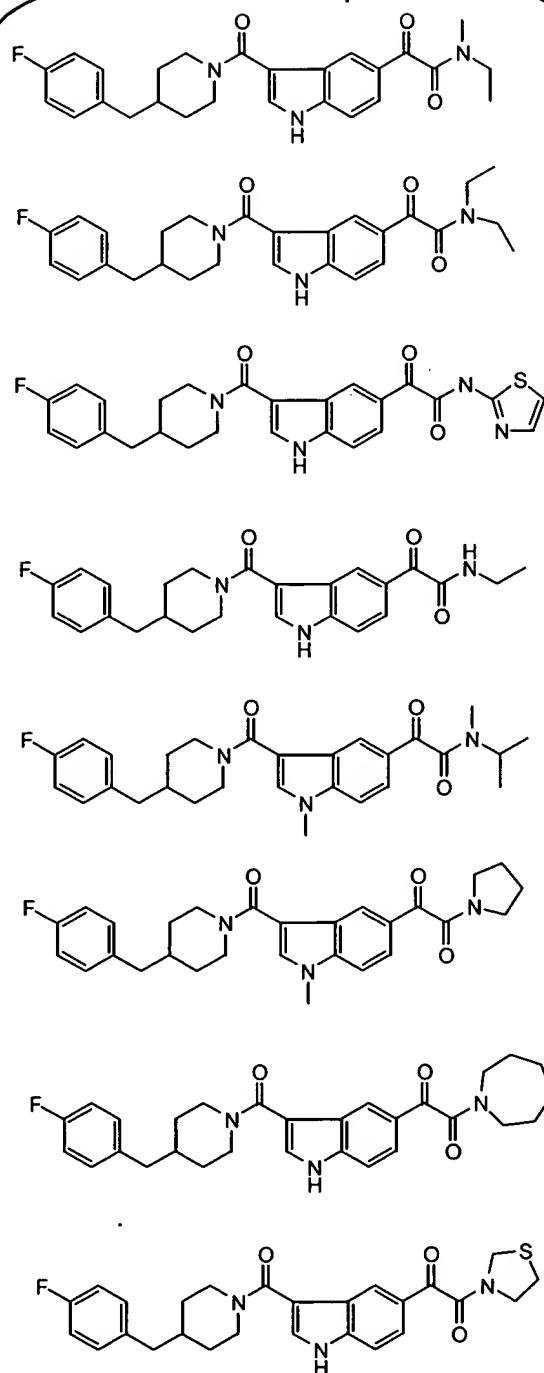
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List-1D

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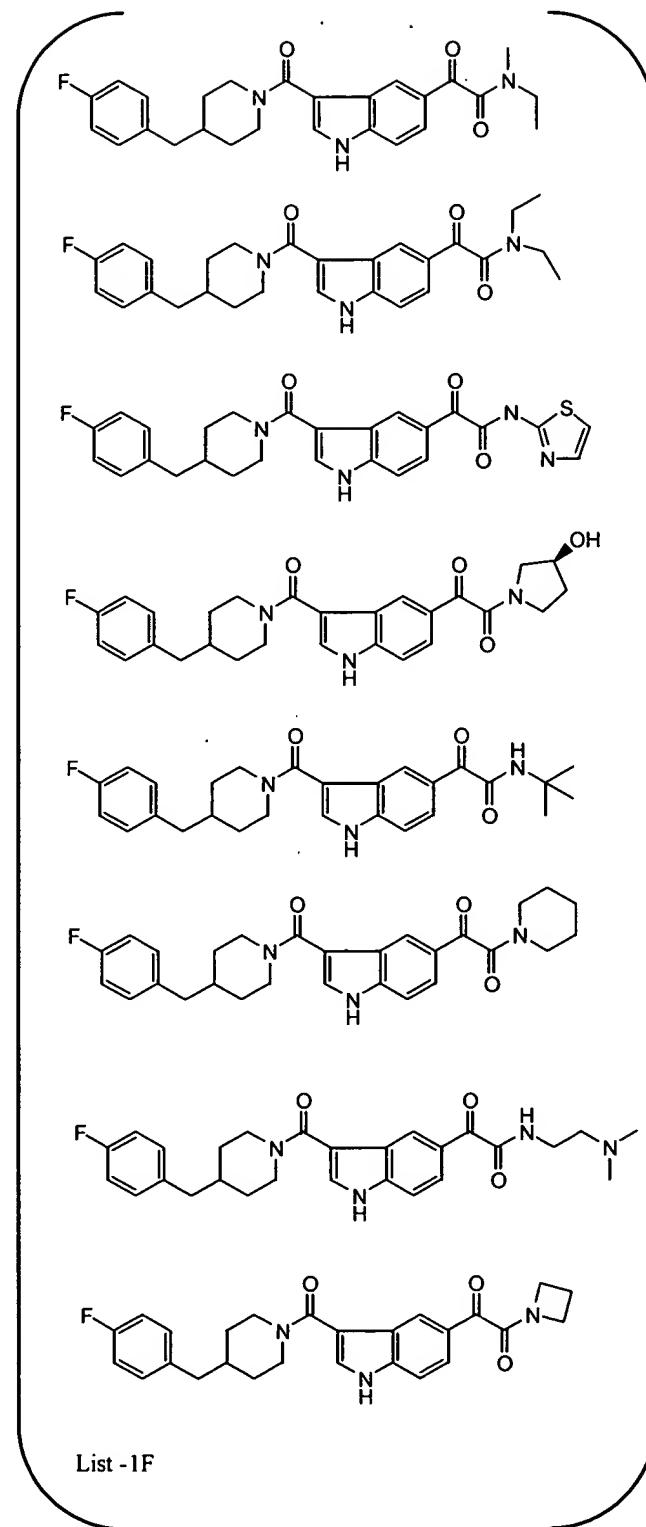
Q1



List -1E

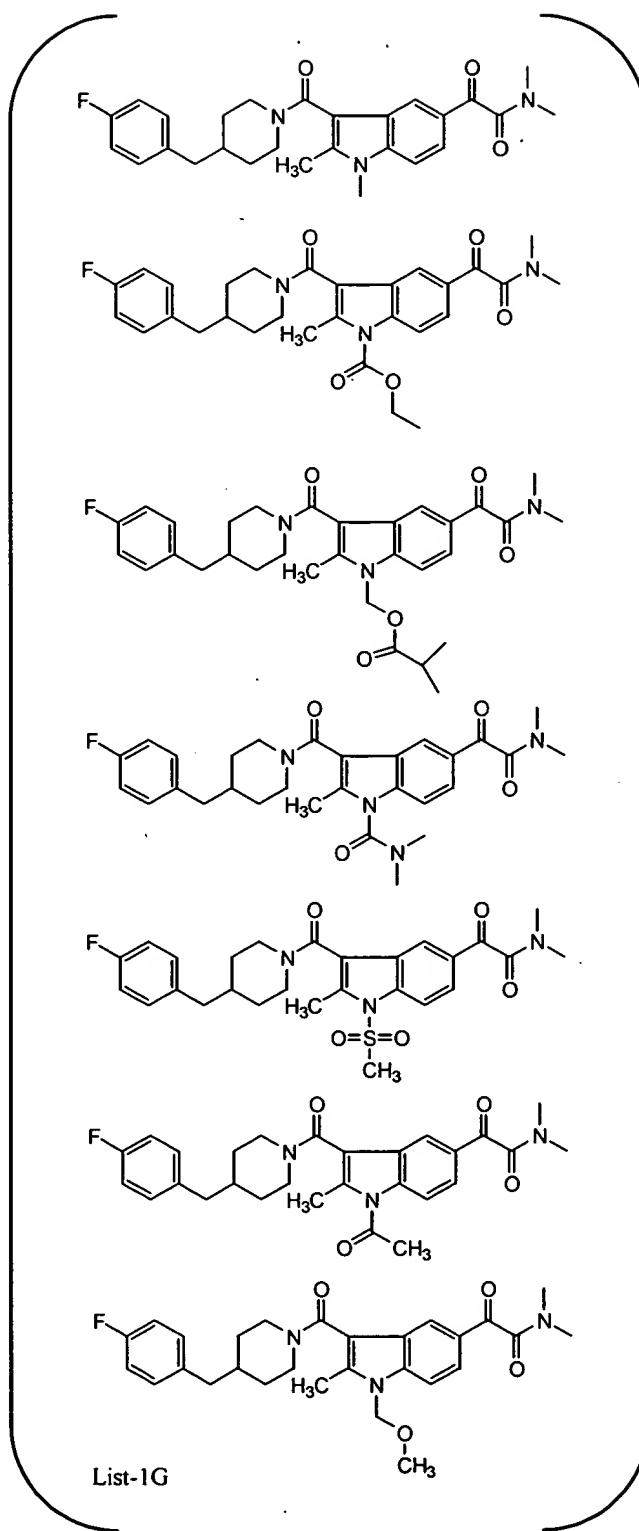
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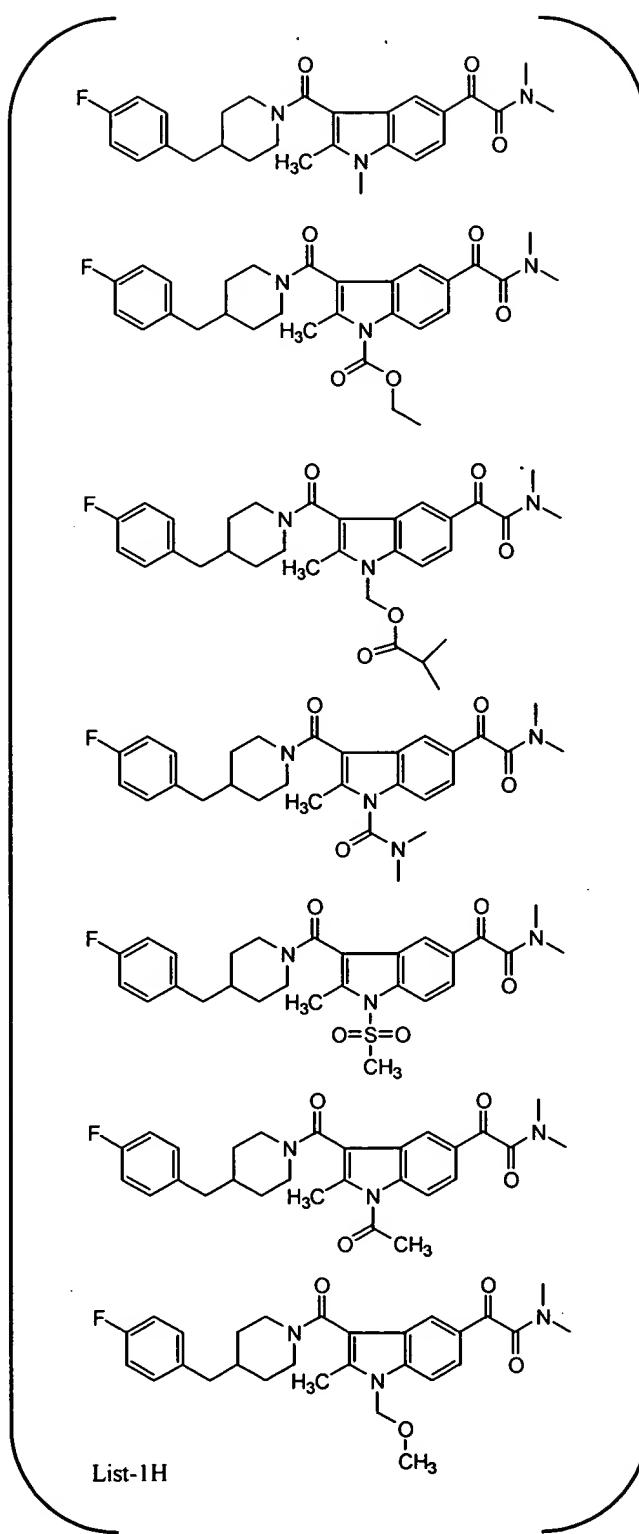
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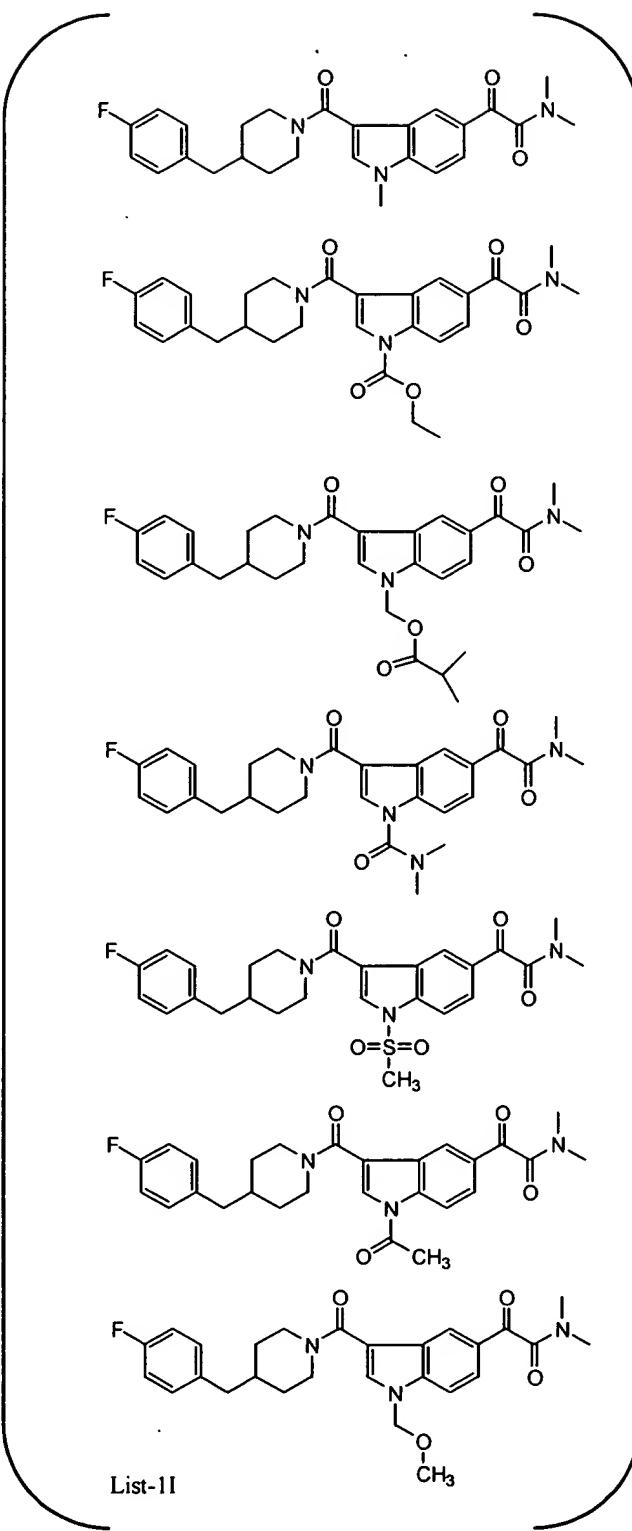
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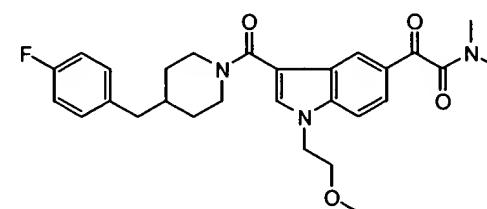
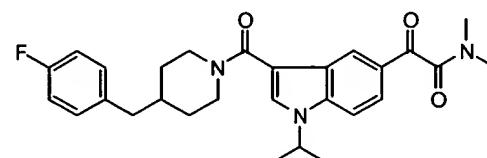
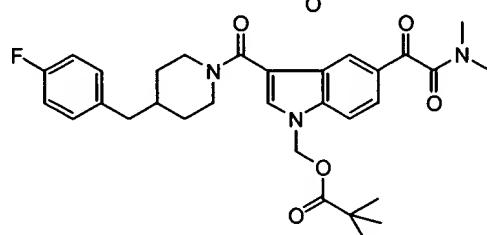
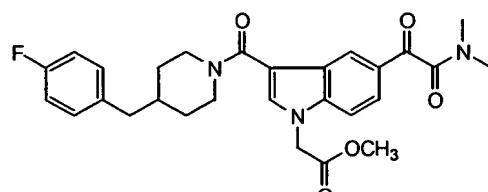
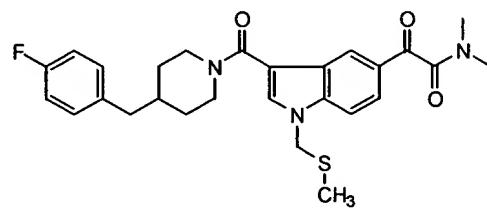
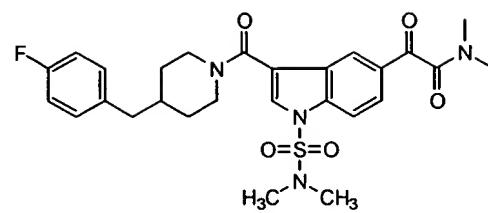
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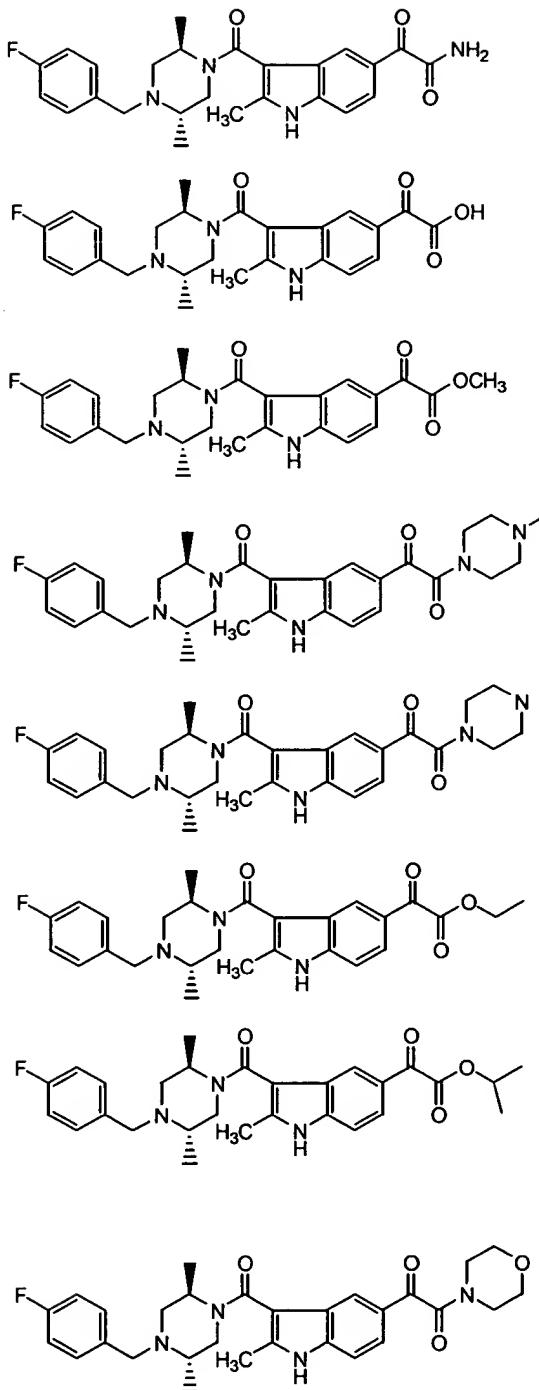
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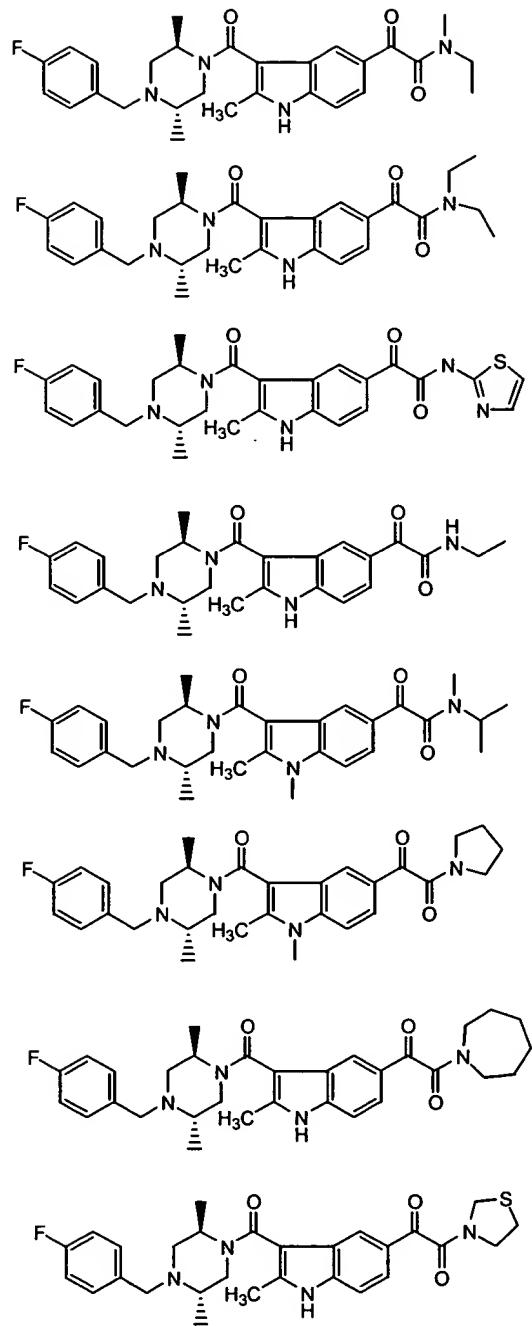
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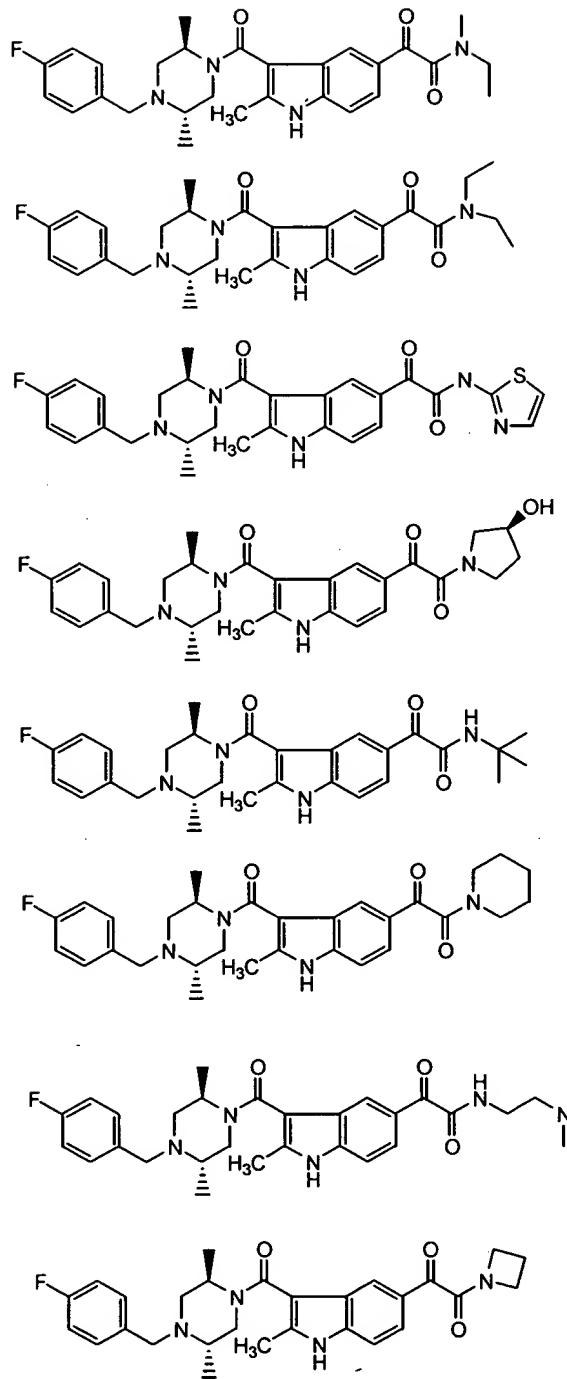
List-2A

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List -2B

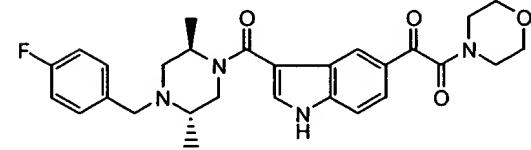
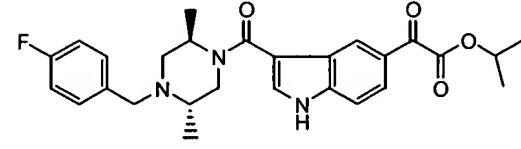
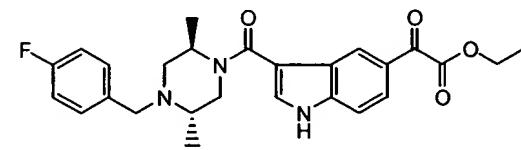
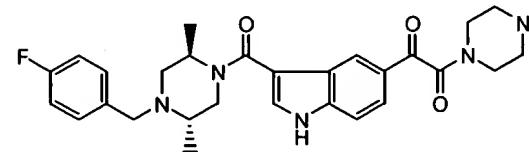
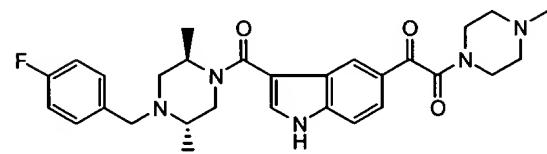
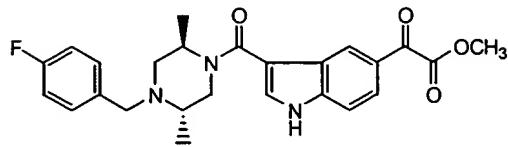
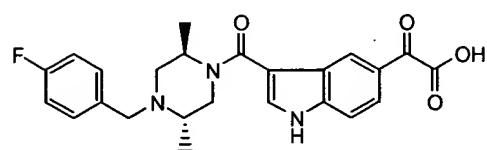
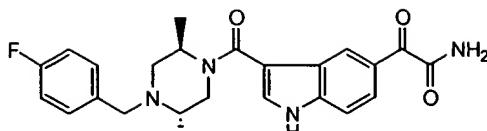
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List -2C

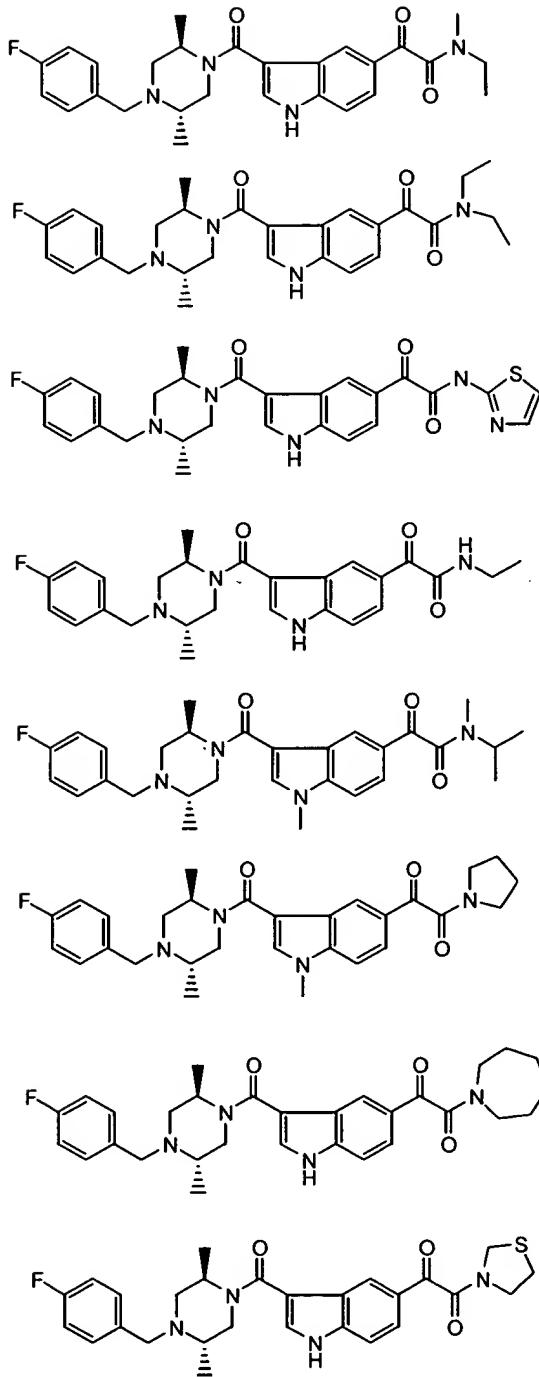


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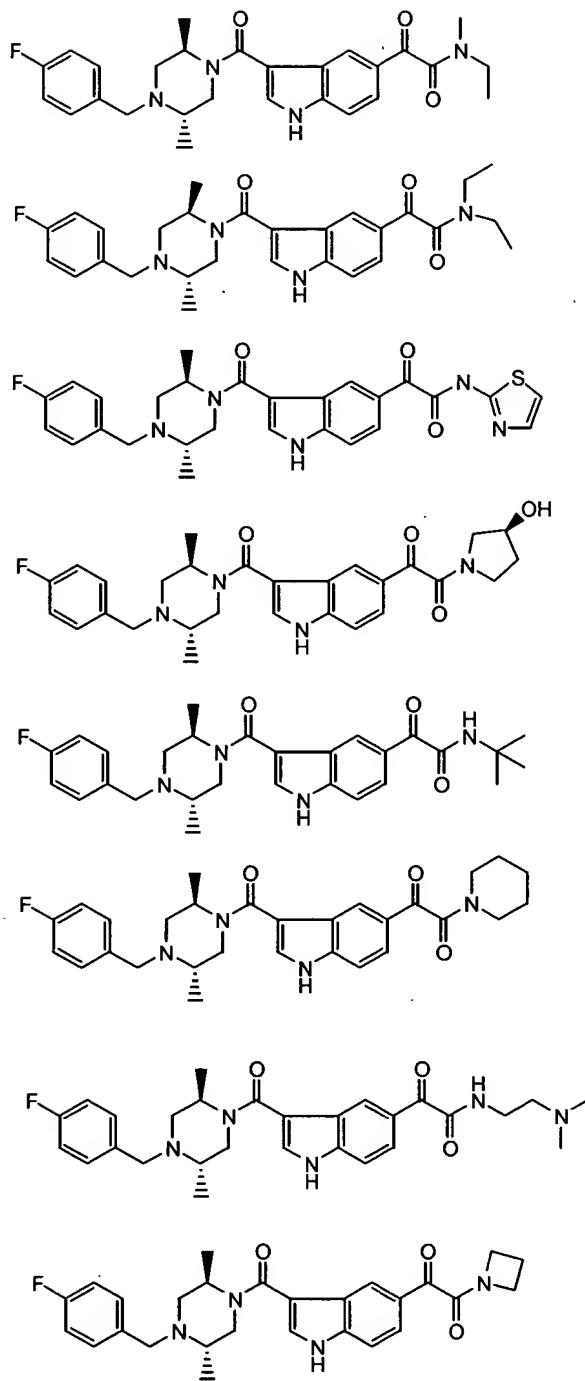
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List -2E

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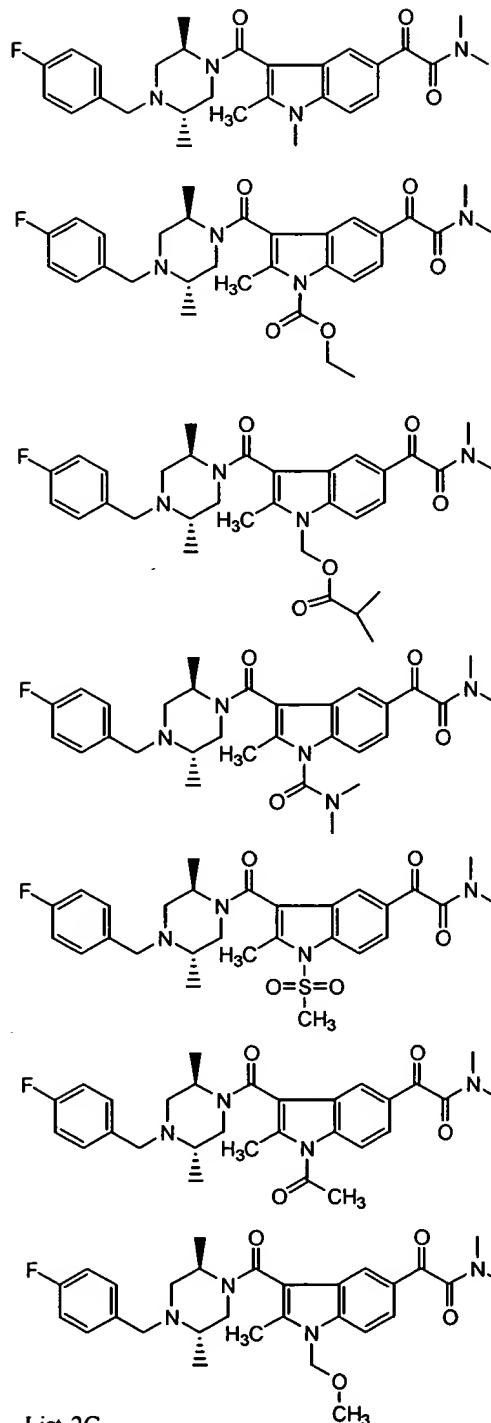
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List -2F

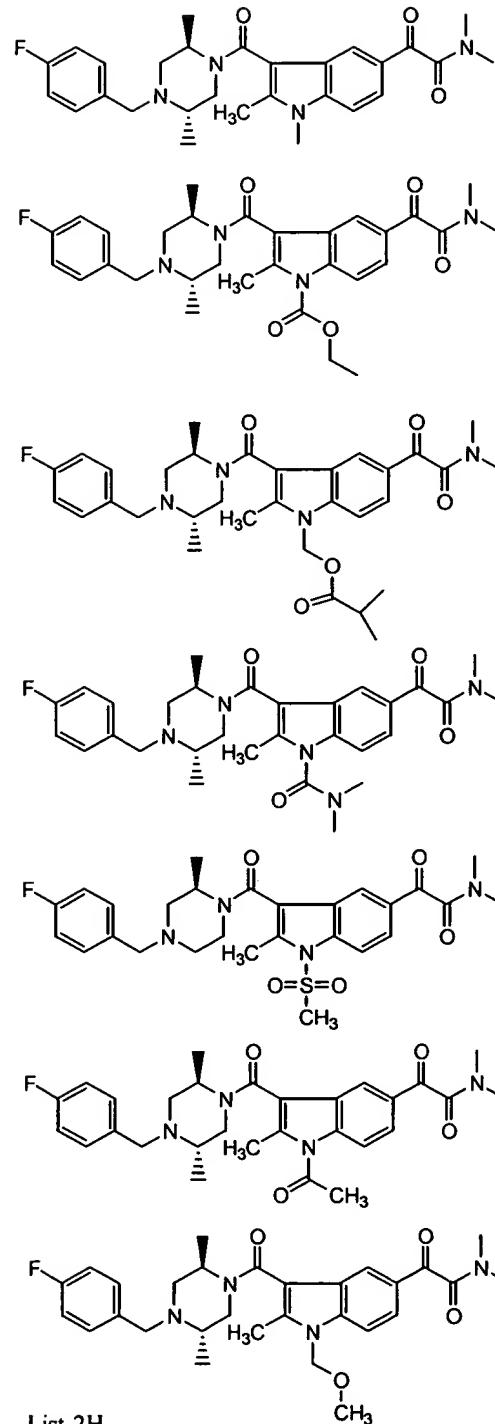
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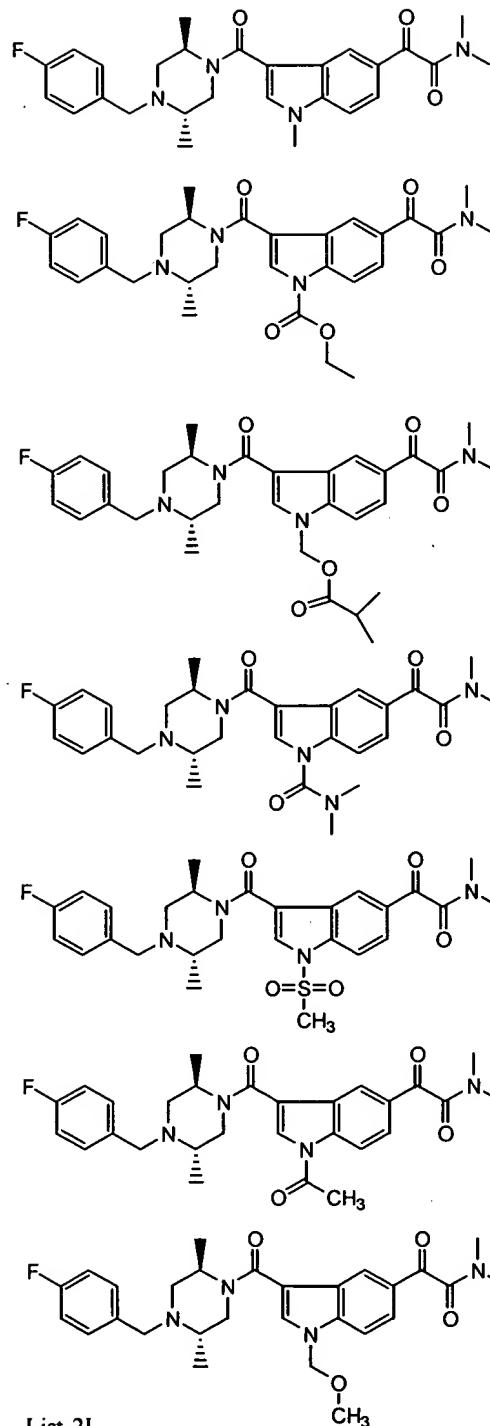


List-2G

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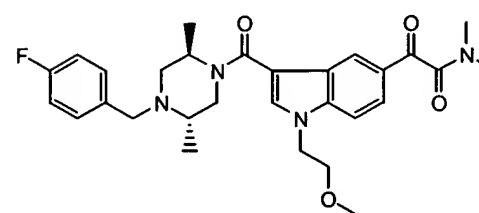
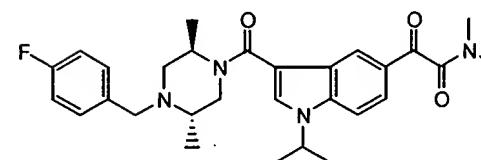
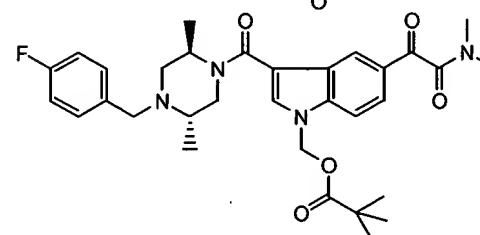
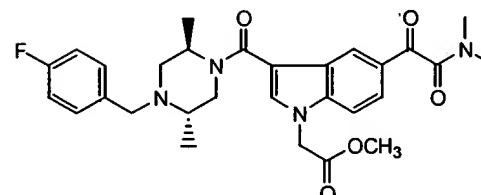
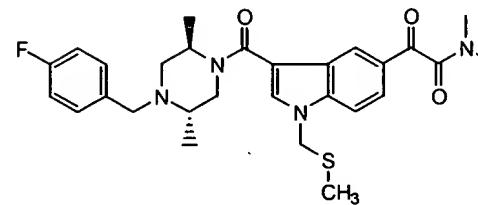
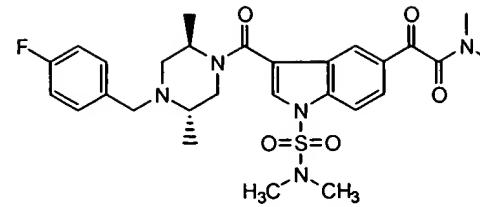
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List-2I

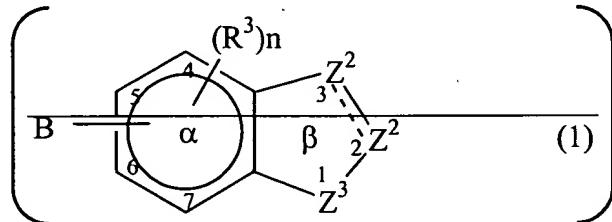
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PATENT & TRADEMARK OFFICE

a)



List-2J

39. (currently amended): A pharmaceutical composition for treating conditions characterized by enhanced p38  $\alpha$  activity which composition comprises a therapeutically effective amount of [[a]] the compound of the formula claim 1 or a



and the pharmaceutically acceptable [[salts]] salt thereof in admixture with at least one pharmaceutically acceptable carrier, or a pharmaceutical composition thereof, wherein

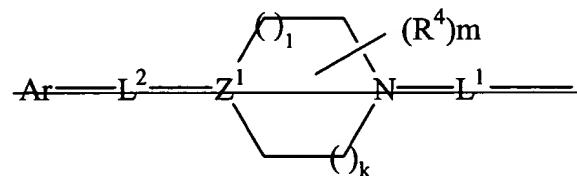
~~—~~ represents a single or double bond;

~~B is W<sub>i</sub>COX<sub>j</sub>Y wherein Y is COR<sup>2</sup> or an isostere thereof and R<sup>2</sup> is hydrogen or a noninterfering substituent, each of W and X is a spacer of 2-6 Å, and each of i and j is independently 0 or 1;~~

~~each R<sup>3</sup> is independently a noninterfering substituent, where n is 0-3;~~

~~Z<sup>3</sup> is NR<sup>7</sup> or O, wherein R<sup>7</sup> is H or a noninterfering substituent;~~

~~one Z<sup>2</sup> is CA or CR<sup>8</sup>A and the other is CR<sup>1</sup>, CR<sup>1</sup><sub>2</sub>, NR<sup>6</sup> or N wherein each R<sup>1</sup>, R<sup>6</sup> and R<sup>8</sup> is independently hydrogen or noninterfering substituent, wherein A is:~~



~~such that Z<sup>1</sup> is CR<sup>5</sup> or N wherein R<sup>5</sup> is hydrogen or a noninterfering substituent;~~

~~each of l and k is an integer from 0-2 wherein the sum of l and k is 0-3;~~

~~Ar is an aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring;~~

~~each R<sup>4</sup> is independently a noninterfering substituent where m is 0-4;~~

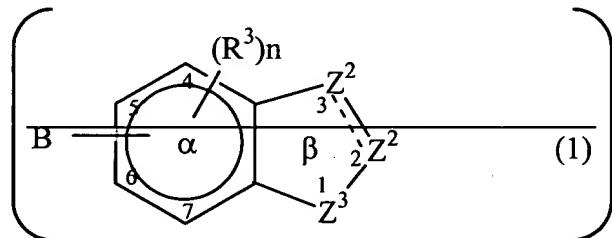
~~each of L<sup>1</sup> and L<sup>2</sup> is a linker; and~~

~~the distance between the atom of Ar linked to L<sup>2</sup> and the center of the  $\beta$  ring is 4.5-24 Å.~~

40. (original): The composition of claim 39 which further contains an additional therapeutic agent.

41. (original): The composition of claim 40 wherein said additional therapeutic agent is a corticosteroid, a monoclonal antibody, or an inhibitor of cell division.

42. (currently amended): A method to treat a condition mediated by p38- $\alpha$  kinase comprising administering to a subject in need of such treatment a compound of the formula claim 1 or:



and the a pharmaceutically acceptable [[salts]] salt thereof, or a pharmaceutical composition thereof, wherein

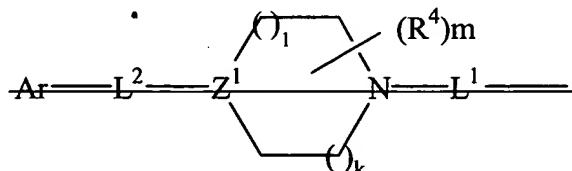
~~—~~ represents a single or double bond;

~~B is W, COX, Y wherein Y is COR^2 or an isostere thereof and R^2 is hydrogen or a noninterfering substituent, each of W and X is a spacer of 2-6 Å, and each of i and j is independently 0 or 1;~~

~~each R^3 is independently a noninterfering substituent, where n is 0-3;~~

~~Z^3 is NR^7 or O; wherein R^7 is H or a noninterfering substituent;~~

~~one Z^2 is CA or CR^8A and the other is CR^1, CR^2, NR^6 or N wherein each R^1, R^6 and R^8 is independently hydrogen or noninterfering substituent; wherein A is:~~



~~such that Z^1 is CR^5 or N wherein R^5 is hydrogen or a noninterfering substituent;~~

~~each of l and k is an integer from 0-2 wherein the sum of l and k is 0-3;~~

~~Ar is an aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring;~~

~~each R^4 is independently a noninterfering substituent where m is 0-4;~~

~~each of L^1 and L^2 is a linker; and~~

~~the distance between the atom of Ar linked to L^2 and the center of the  $\beta$  ring is 4.5-24 Å.~~

43. (original): The method of claim 42 wherein said condition is a proinflammation response.

44. (currently amended): The method of claim 43 wherein said proinflammation response is multiple sclerosis, IBD, rheumatoid arthritis, rheumatoid spondylitis, osteoarthritis, gouty arthritis, other arthritic conditions, sepsis, ~~septic shock~~, endotoxic shock, Gram-negative sepsis, toxic shock syndrome, asthma, adult respiratory distress syndrome, ~~stroke~~, reperfusion injury, ~~CNS injury~~, psoriasis, restenosis, cerebral malaria, chronic pulmonary inflammatory disease, silicosis, pulmonary sarcosis, a bone resorption disease, graft-versus-host reaction, Crohn's Disease, ulcerative colitis, Alzheimer's or pyresis.

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